

# SERVICE MANUAL

(without price)

ELECTRONIC CASH REGISTER

**PCR-260** (EX-266B)

**PCR-255** (EX-267B)

SEP. 1996

Printer Model : M42V

**CASIO®**

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## 1. FEATURES

Function	PCR-260 (U.S.A.)	PCR-255 (U.S.A.)
Department number	10	10
PLU function	100	100
Customer display	Nil	Effective
PRG data back up function	Nil	Nil
Calculator function	Effective	Effective

## 2. SPECIFICATIONS

### PCR-260

Power consumption	In operation			120V
		Max.	4.5W	0.09A
		Stand-by	-	0.06A
	Mode SW OFF		-	0.05A
Memory protection	Backup battery	Mangan battery UM-3 × 3 pcs. (25°C)		
	Backup period	1 year (25°C)		
	Battery life	Replace every 1 year		
Clock and calender	Accuracy	Within ±30 sec. per month		
	Auto calender	Effective until 2099 A.D.		
Environment	Operating temperature	0°C ~ 40°C		
	Operating humidity	10% ~ 90%		
	Storage temperature	-25°C ~ 65°C		
	Storage humidity	10% ~ 95%		
Printer	Model	M-42V		
	Print method	Print wheel selecting type serial printer		
	Print digits	12 digits (Amount 10 digits : Symbol 2 digits)		
	MCBF	700,000 lines		
Ink roller	Model	IR-40 (Purple)		
	Life	1,000,000 characters		
Roll paper	Type	Fine-quarity paper		
	Size	57.5±0.5 mm		
	Roll diameter	80 mm or less		
Drawer	S drawer (Coin 5/Bill 4)	DL-1319		

**PCR-255**

Power consumption	In operation		120V
		Max.	0.11A
		Stand-by	0.07A
	Mode SW OFF		0.06A
Memory protection	Same as PCR-260		
Clock and calender	Same as PCR-260		
Environment	Same as PCR-260		
Printer	Same as PCR-260		
Ink roller	Same as PCR-260		
Roll paper	Same as PCR-260		
Drawer	S drawer (Coin 5/ Bill 4)		DL-1319

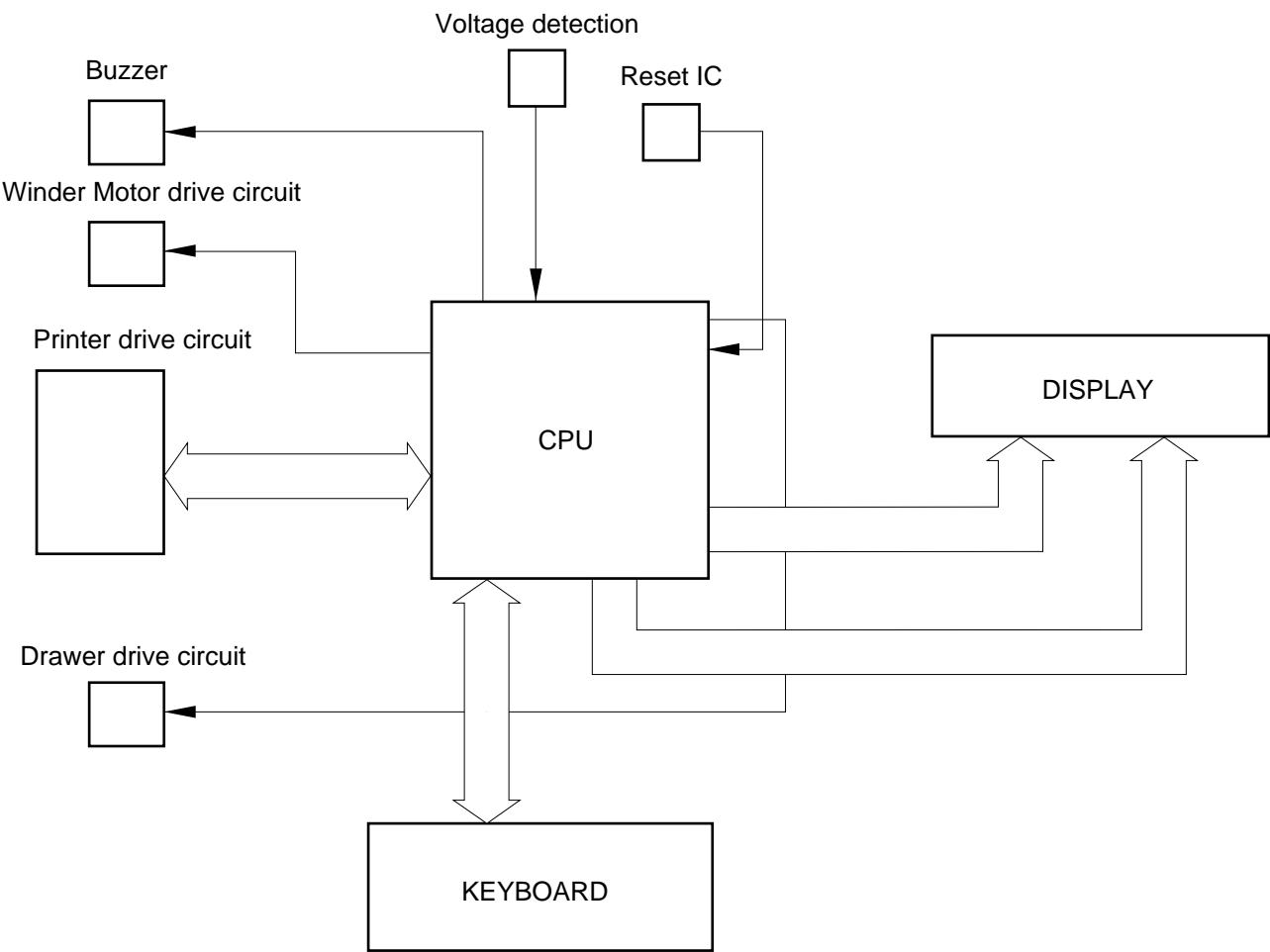
**3. OPTION (PCR-260/255)**

- Wet cover WT-69

**4. MAC OPERATION (Memory All Clear Operation)**

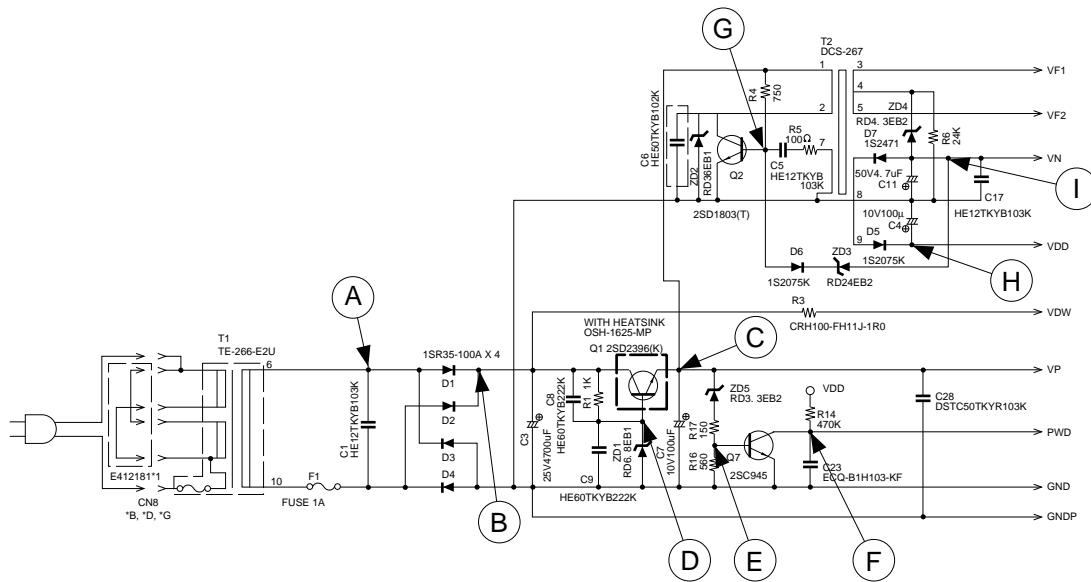
1. Set the Mode Switch to OFF.
2. Plug the power cord of the ECR off an AC outlet.
3. Remove the memory protection batteries.
4. Leave the ECR a few minutes and plug the power cord into an AC outlet.
5. Set the memory protection batteries.
6. Turn the Mode Switch to REG position.

5. BLOCK DIAGRAM



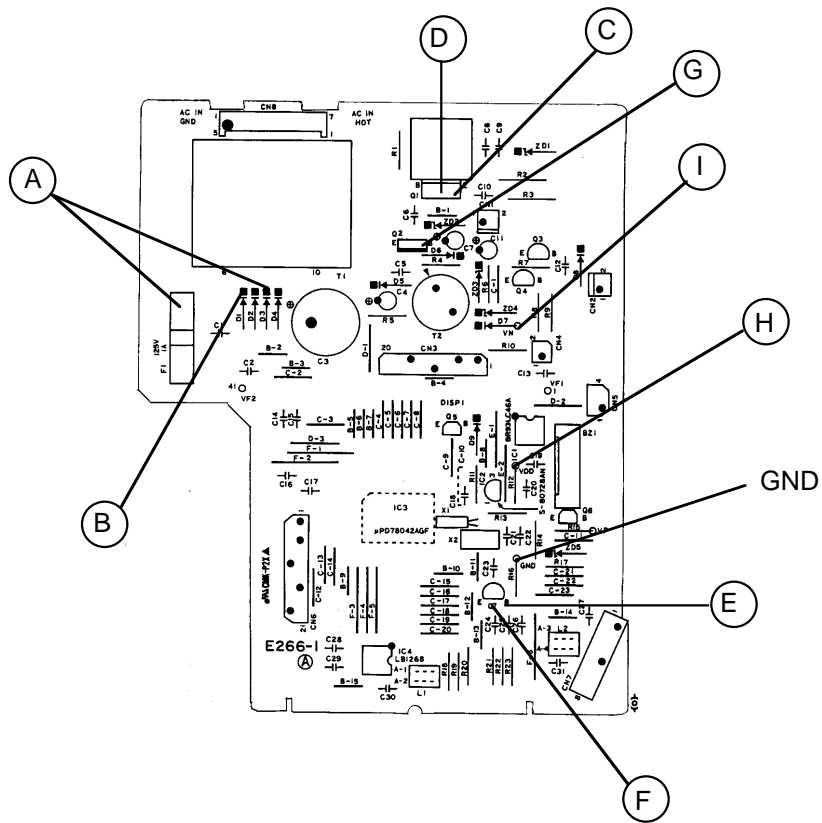
## 6. CIRCUIT EXPLANATIONS

### 6-1. Power supply circuit



1. Plug the power cord into AC outlet, secondary voltage (9.65VAC) of the power transformer T1 will appear at "A" point.
2. Then, its AC voltage is rectified by the diode bridge and change it to DC voltage. ("B" point)
3. DC voltage appears more than 7V at the collector of power transistor 2SD2396, and then the power transistor is turned on.  
Then VP is supplied. ("C" point)
4. When the VP voltage becomes more than 3.3V, the transistor 2SD945 is turned on and then PWD signal becomes GND level. ("F" point)  
When the PWD signal becomes GND level, CPU knows no power failure.
5. VP is supplied at the DC DC converter trans T2, the DC DC converter makes display and logic circuit voltage.  
VN ,VF1,VF2 : Display voltage ("I", "J" point )  
VDD : Logic circuit voltage ("H" point)

Transistor 2SD1803 is used for oscillating the primary voltage of DC DC converter trans.

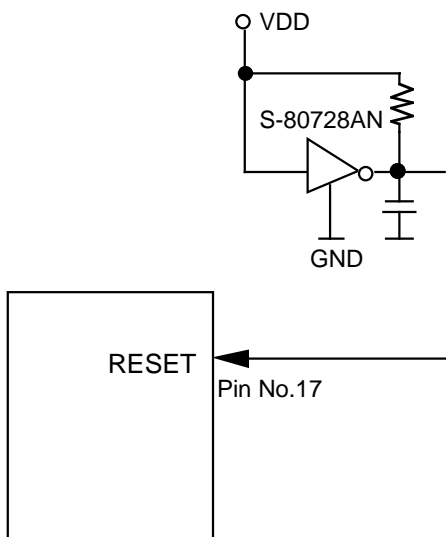


	A	B	C	D	E	F	G	H	I
Power ON	9.65 VAC	10.52V	5.76V	10.45V	0.78V	0.12V	Pulse	5.07V	-23.9V
Plug out	0	0	0	0	0	4.13V	0	4.30V	0

Voltage level is measured at the following condition.

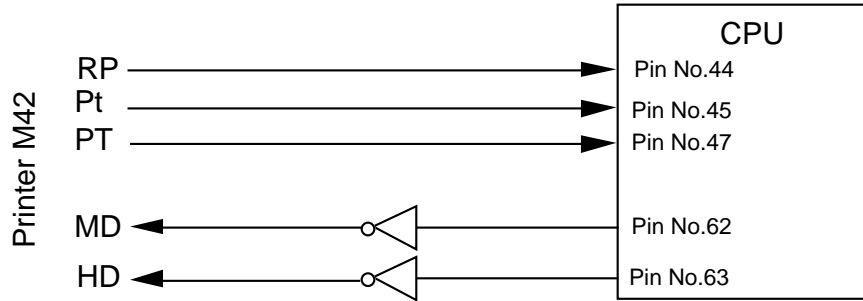
1. Plug the power cord in AC outlet.
2. Mode switch position : REG, display 0.00
3. Put in the memory protection batteries.
4. Plug out : Plug out the power cord , the memory protection batteries in.

## 6-2. Reset circuit



When the voltage level at the pin No.17 of CPU is not stable, CPU does not work properly. To make a stable voltage, the reset IC(S-80728AN) is used for this circuit. In case the voltage level of VDD becomes down output terminof reset IC is out the stable voltage.

### 6-3. Printer drive circuit



When the CPU start printing, CPU send MD signal to rotate motor unit.  
Then the printer send back the RP(reset pulse),PT and PT (Timing pulse) to CPU.  
After CPU receive RP,Pt and PT, CPU knows the position of print wheel.  
And then, CPU send HD signal to operate the printing magnet when the character selected.  
The CPU counts the TP signal to select the character.

### 6-4. Pin description (CPU uPD78044AGF)

Pin No.	Signal	In/Out	Mode SW REG	Mode SW OFF	AC cord Plug off	Description
1	P94/FIP6	Out	Pulse	-24V	L	Display digit signal DG7
2	P93/FIP5	Out	Pulse	-24V	L	Display digit signal DG6
3	P92/FIP4	Out	Pulse	-24V	L	Display digit signal DG5
4	P91/FIP3	Out	Pulse	-24V	L	Display digit signal DG4
5	P90/FIP2	Out	Pulse	-24V	L	Display digit signal DG3
6	P81/FIP1	Out	Pulse	-24V	L	Display digit signal DG2
7	P80/FIP0	Out	Pulse	-24V	L	Display digit signal DG1
8	VDD	-	+5V	+5V	+5V	VDD terminal
9	P27/SCK0	In/Out	-	-	-	Not used
10	P26/SO0/SB1	In/Out	-	-	-	Not used
11	P25/SI0/SB0	In/Out	-	-	-	Not used
12	P24/BUSY	In/Out	-	-	-	Not used
13	P23/STB	Out	H	H	H	Strobe signal for AVREF
14	P22/SCK1	Out	L	H	H	SK signal for EEPROM
15	P21/SO1	Out	L	H	H	DI signal for EEPROM
16	P20/SI1	In	H	H	H	DO signal for EEPROM
17	RESET	In	H	H	H	Reset signal
18	P74	Out	H	H	L	Drawer open signal
19	P73	Out	L	H	H	Common signal for PAD condition
20	AVSS	-	GND	GND	GND	GND for AD converter
21	P17/ANI7	In	GND	GND	GND	GND
22	P16/ANI6	In	GND	GND	GND	GND
23	P15/ANI5	Out	L	L	H	Chip enable signal for EEPROM
24	P14/ANI4	In	GND	GND	GND	GND
25	P13/ANI3	In	GND	GND	GND	GND
26	P12/ANI2	In	GND	GND	GND	GND
27	P11/ANI1	In	GND	GND	GND	GND
28	P10/ANI0	In	H	H	H	Low battery detection terminal
29	AVDD	-	H	H	H	Power for AD converter
30	AVREF	In	L	L	L	Voltage for AD converter (VDD)
31	XT1	In	Pulse	Pulse	Pulse	Sub system clock
32	XT2	-	Pulse	Pulse	Pulse	Sub system clock
33	VSS	-	GND	GND	GND	GND
34	X1	In	Pulse	L	L	Main system clock
35	X2	-	Pulse	H	H	Main system clock
36	P37	In	L	L	L	Mode switch position (OFF)
37	P36/BUZ	Out	L	L	L	Buzzer signal
38	P35/PCL	In	L	L	L	Mode switch position (Z)
39	P34/T12	In	L	L	L	Mode switch position (X)
40	P33/T11	In	L	L	L	Mode switch position (CAL)



Pin No.	Signal	In/Out	Mode SW REG	Mode SW OFF	AC cord Plug off	Description
41	P32/TO2	In	H	L	L	Mode switch position (REG)
42	P31/TO1	In	L	L	L	Mode switch position (RF)
43	P30/TO0	In	L	L	L	Mode switch position (PRG)
44	P03/INTP3/CI0	In	H	L	L	Reset pulse RP from printer
45	P02/INTP2	In	H	Pulse	L	Sub timing pulse Pt from printer
46	P01/INTP1	In	L	L	H	Power down signal PWD
47	P00/INTP0/TI0	In	H	L	L	Main timing pulse PT from printer
48	IC	-	GND	GND	GND	GND
49	P72	In	H	H	H	TAX PAD signal for Japan
50	P71	In	-	-	-	PAD2 condition
51	P70	In	L	H	H	PAD1 condition
52	VDD	-	+5V	+5V	+5V	Power (+5V)
53	P127/FIP33	In	L	L	L	Key input signal KI7
54	P126/FIP32	In	L	L	L	Key input signal KI6
55	P125/FIP31	In	L	L	L	Key input signal KI5
56	P124/FIP30	In	L	L	L	Key input signal KI4
57	P123/FIP29	In	L	L	L	Key input signal KI3
58	P122/FIP28	In	L	L	L	Key input signal KI2
59	P121/FIP27	In	L	L	L	Key input signal KI1
60	P120/FIP26	In	L	L	L	Key input signal KI0
61	P117/FIP25	Out	L	L	L	Winder motor drive signal WMO
62	P116/FIP24	Out	L	L	L	Printer moter drive signal PMO
63	P115/FIP23	Out	L	L	L	Head drive signal for printer PHD
64	P114/FIP22	Out	Pulse	L	L	Key common signal KC3
65	P113/FIP21	Out	Pulse	L	L	Key common signal KC2
66	P112/FIP20	Out	Pulse	L	L	Key common signal KC1
67	P111/FIP19	Out	Pulse	L	L	Key common signal KC0
68	P110/FIP18	Out	H	H	H	Not used (+5V)
69	P107/FIP17	Out	Pulse	-24V	L	Display segment signal Sdp (Decimal point)
70	P106/FIP16	Out	Pulse	-24V	L	Display segment signal Sg
71	VLOAD	-	-24V	-24V	L	Display voltage VN
72	P105/FIP15	Out	Pulse	-24V	L	Display segment signal Sf
73	P104/FIP14	Out	Pulse	-24V	L	Display segment signal Se
74	P103/FIP13	Out	Pulse	-24V	L	Display segment signal Sd
75	P102/FIP12	Out	Pulse	-24V	L	Display segment signal Sc
76	P101/FIP11	Out	Pulse	-24V	L	Display segment signal Sb
77	P100/FIP10	Out	Pulse	-24V	L	Display segment signal Sa
78	P97/FIP9	Out	H	Pulse	L	Mode switch common signal
79	P96/FIP8	Out	Pulse	-24V	L	Display digit signal DG9
80	P95/FIP7	Out	Pulse	-24V	L	Display digit signal DG8

**Note :** Above data is measured under following condition.

Mode SW REG : AC cord plug in the AC outlet, Memory protection batteries in,  
Mode SW position : REG

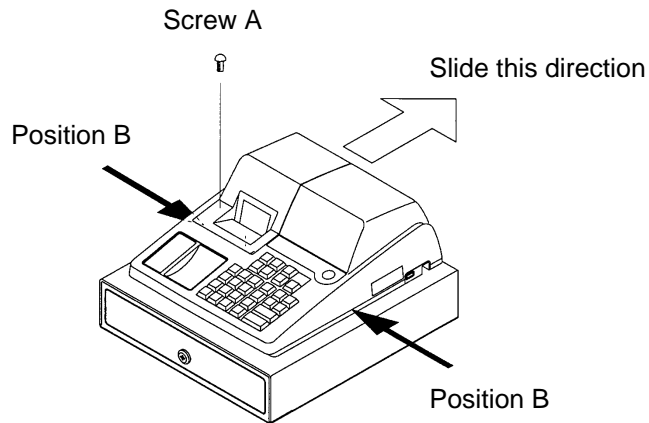
Mode SW OFF : AC cord plug in the AC outlet, Memory protection batteries in,  
Mode SW position : OFF

AC cord plug off : AC cord plug out the AC outlet, memory protection batteries in,  
Mode SW position : OFF

## 7. DISASSEMBLY

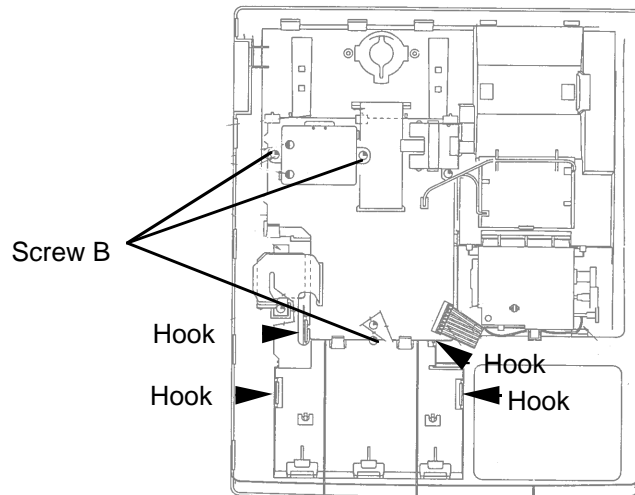
### 7-1. To open the upper case

1. Take out the printer cover and release the screw A.
2. Pushing the position B and slide the upper case to backward.
3. Lift up the upper case and remove the drawer connector.



### 7-2. To remove the Main PCB

1. Remove all cables on Main PCB and release 3 pcs of screw B.
2. Take out the Main PCB ass'y.



### 7-3. To remove the keyboard ass'y

1. Release the 4 hooks and push the keyboard ass'y down.

## 8. DIAGNOSTIC OPERATIONS

### 8-1. To start the diagnostic operation

1. Make MAC operation.
2. Turn the mode switch to PGM position.
3. Input "99999999" and press "SUB TOTAL" key.

**Note :** Do not issue the receipt under REG / RF / X / Z mode before execute the diagnostic.  
If the machine issued a receipt, the diagnostic does not start.

Printing Layout

```
      00-00-00
00-00#0002

-d1d2d3d4--d5--
```

Receipt sample

```
      00-00-00
00-00#0002

-2862--2--
```

d1d2d3d4 :     Version No.

d5:    2:     US

### 8-2. Check items

The following test can be checked in the test mode.

1. Key code check
2. Switch check
3. Individual function check

## 8-3. Operations

### 1. Key code check (Hard key code)

When pressing a key, the machine displays the following key code.

**Key code table**

<b>FEED</b>		029	027		021
<b>C</b>		028	026		020
<b>7</b>	<b>8</b>	<b>9</b>	025	019	017
<b>4</b>	<b>5</b>	<b>6</b>	024	018	016
<b>1</b>	<b>2</b>	<b>3</b>	023	014	015
<b>0</b>	011	012	022	013	127

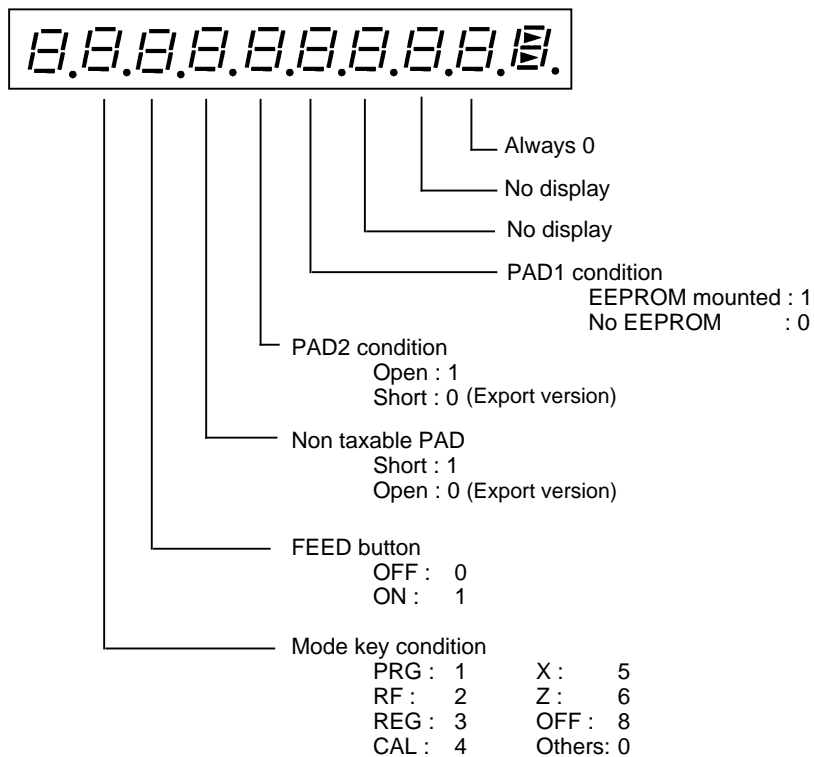
**Display**

0	2	2					
---	---	---	--	--	--	--	--

022 : Hard key code

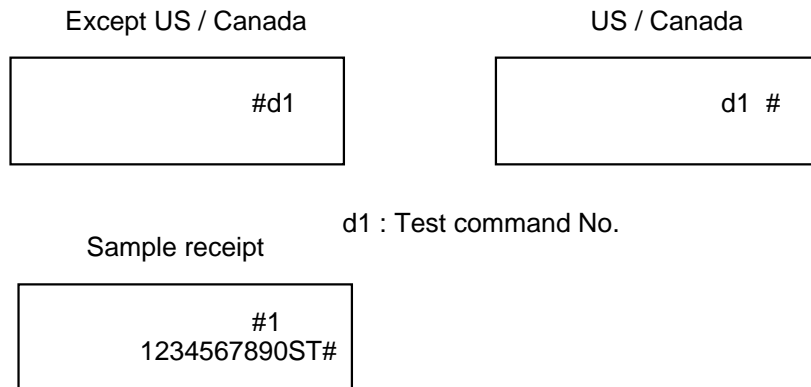
### 2. Switch check

Press " C " button, the switch condition is appered on a display.



### 3. Individual test

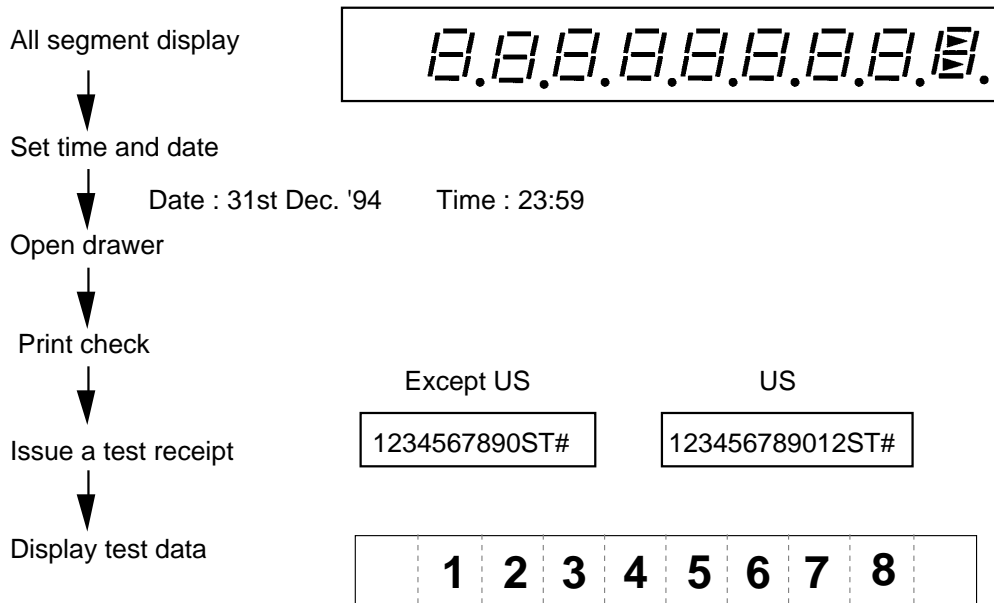
After finishing each test, the machine issues the following receipt.



#### 1. General test

Press "1" key and "SUB TOTAL" key.

The machine executes the following tests.



#### 2. Mode selection (Receipt / Journal)

Press "2" key and "SUB TOTAL" key.

Change the mode to "Journal" from "Receipt".

#### 3. Read/Write test for EEPROM (This test is effected at EEPROM version.)

Press "3" key and "SUB TOTAL" key.

Write a test data (1 word ) to test area of EEPROM and read it.

In case an error happens, the machine beep an error sound and issues an error receipt.

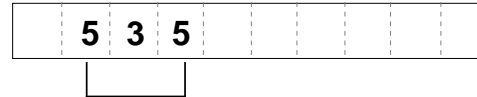
#### 4. Battery voltage check

Press "7" key and "SUB TOTAL" key.

Display the voltage level of memory protection battery.

To escape this test, turn the mode switch to "OFF".

VCC=5.35V(Standard)



Voltage level

#### 5. Print test

Press "8" key and "SUB TOTAL" key.

The machine prints all character.

##### Receipt sample

```
# 8
0 0 0 0 0 0 0 0 0 CA Z
1 1 1 1 1 1 1 1 1 CH 1
2 2 2 2 2 2 2 2 2 RA 2
3 3 3 3 3 3 3 3 3 PO 3
4 4 4 4 4 4 4 4 4 NT 4
5 5 5 5 5 5 5 5 5 STCK
6 6 6 6 6 6 6 6 6 AT +
7 7 7 7 7 7 7 7 7 CG -
8 8 8 8 8 8 8 8 8 TX X
9 9 9 9 9 9 9 9 9 RF@
- - - - -
' ' ' ' ' ' ' ' ' * #
. . . . . . . . . •%NS
# # # # # # # # # VDTA
```

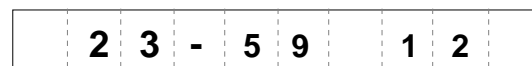
**Note:** US version is printed out  
14 characters.

#### 6. Time test

Press "9" key and "SUB TOTAL" key.

Display the time.

To escape this test, press "C" key.



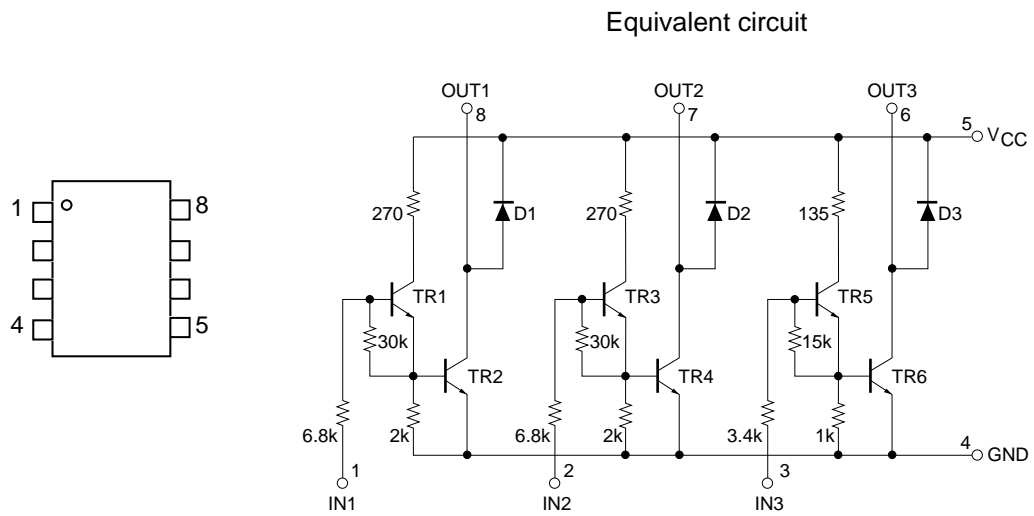
#### 4. To escape the diagnostic operation

Execute the MAC operation (Memory All Clear).

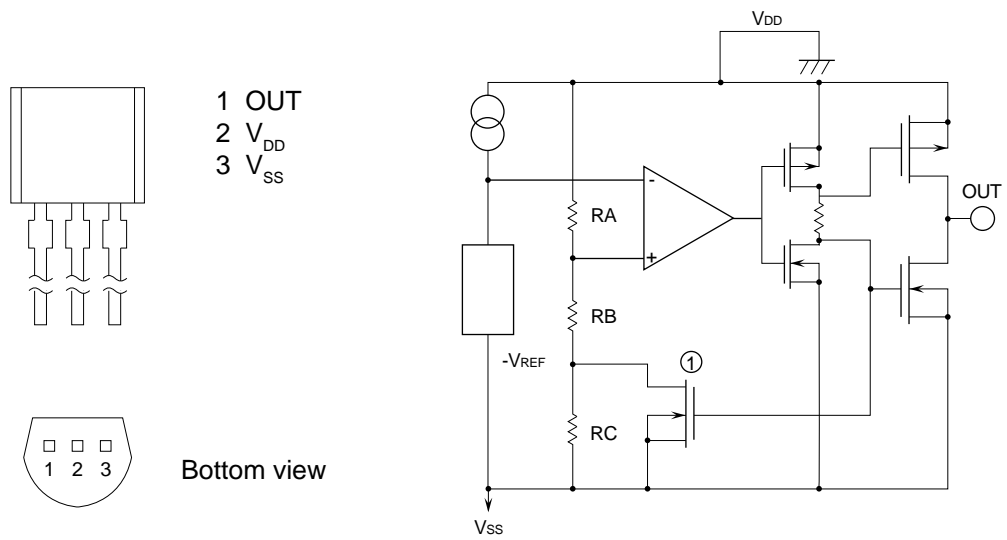
**Note :** Make sure to remove the memory protection batteries.

## 9. IC DATA

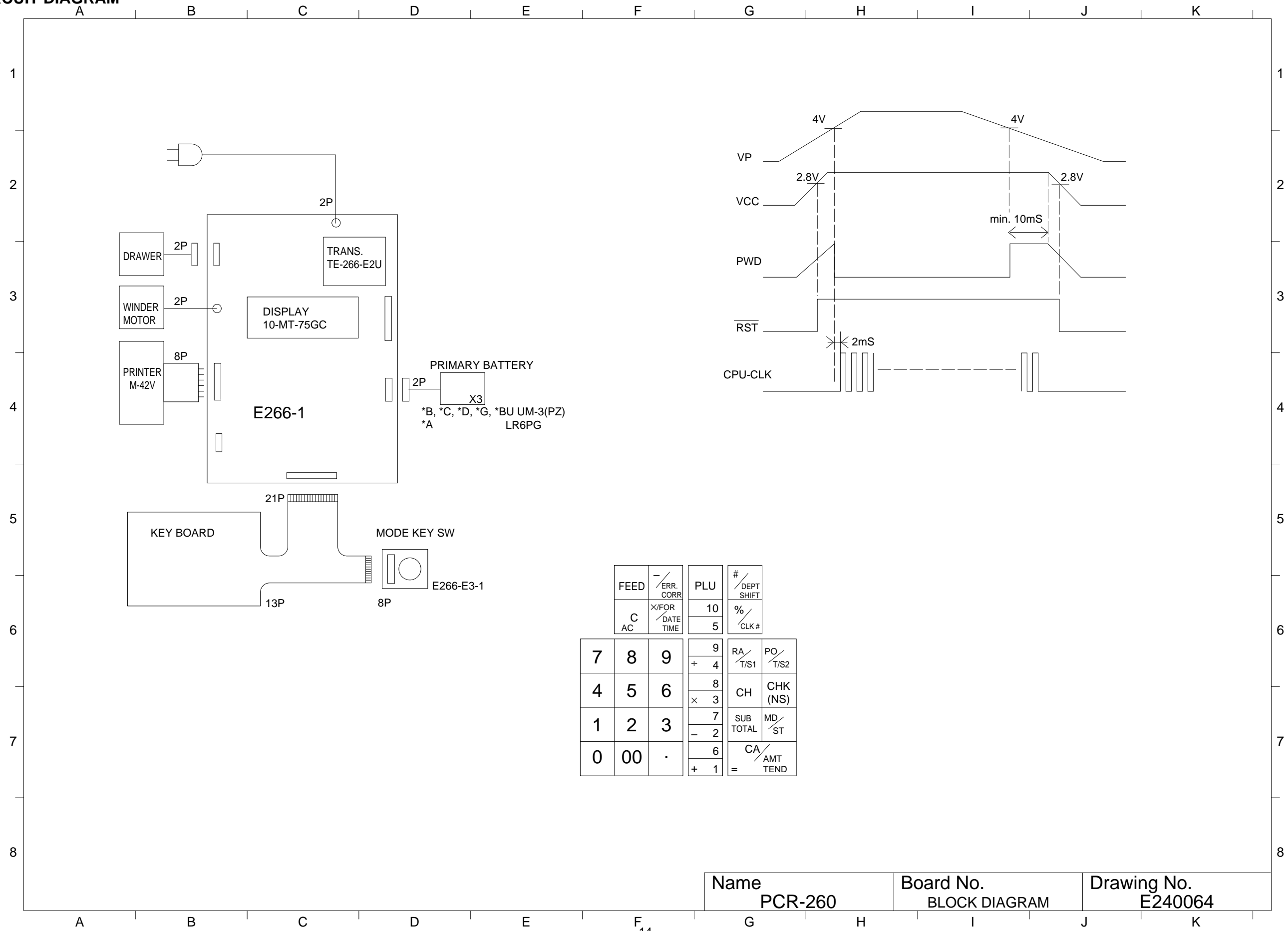
### 9-1. LB1268



### 9-2. S-80728AN-Z



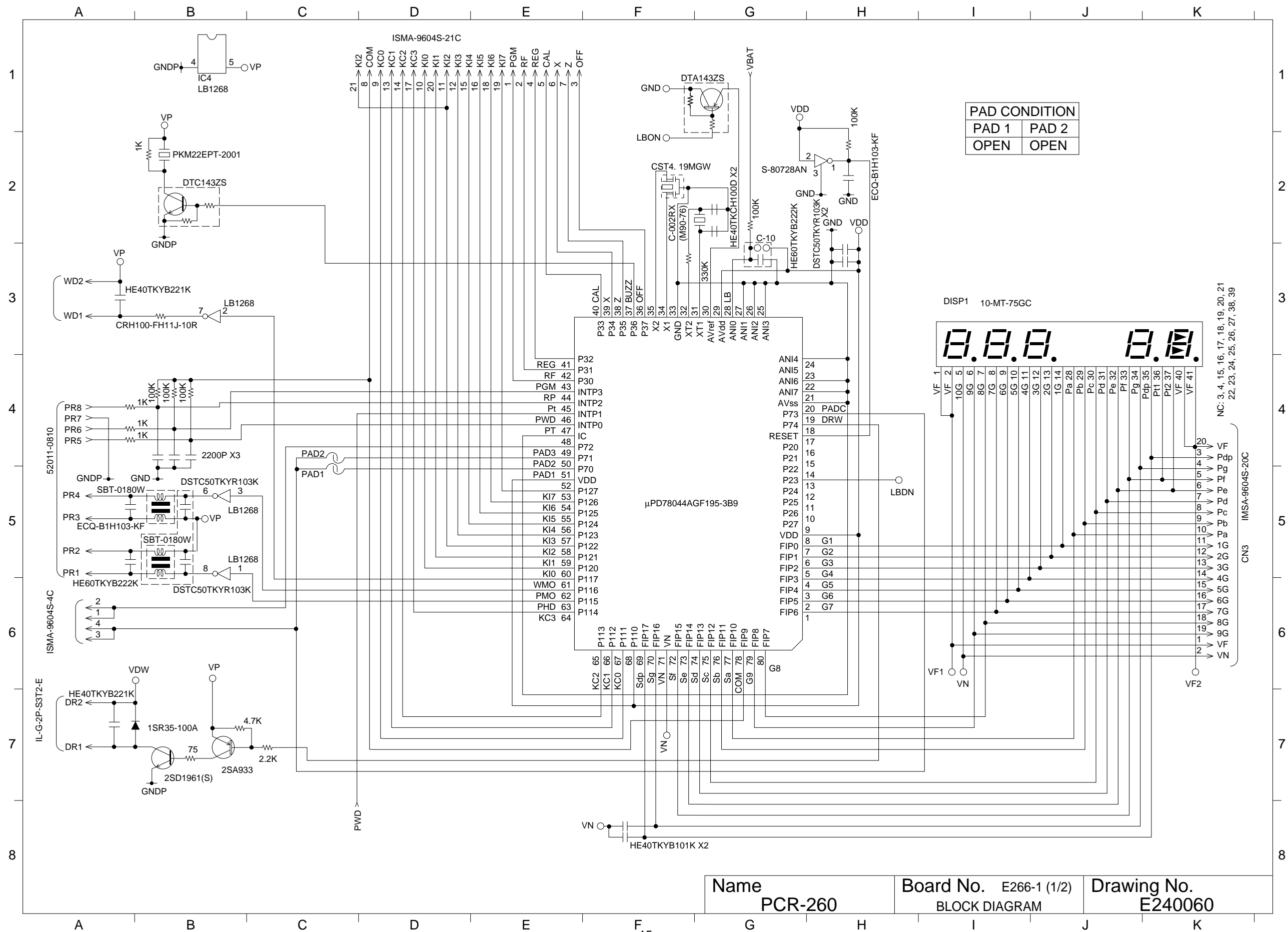
10. CIRCUIT DIAGRAM

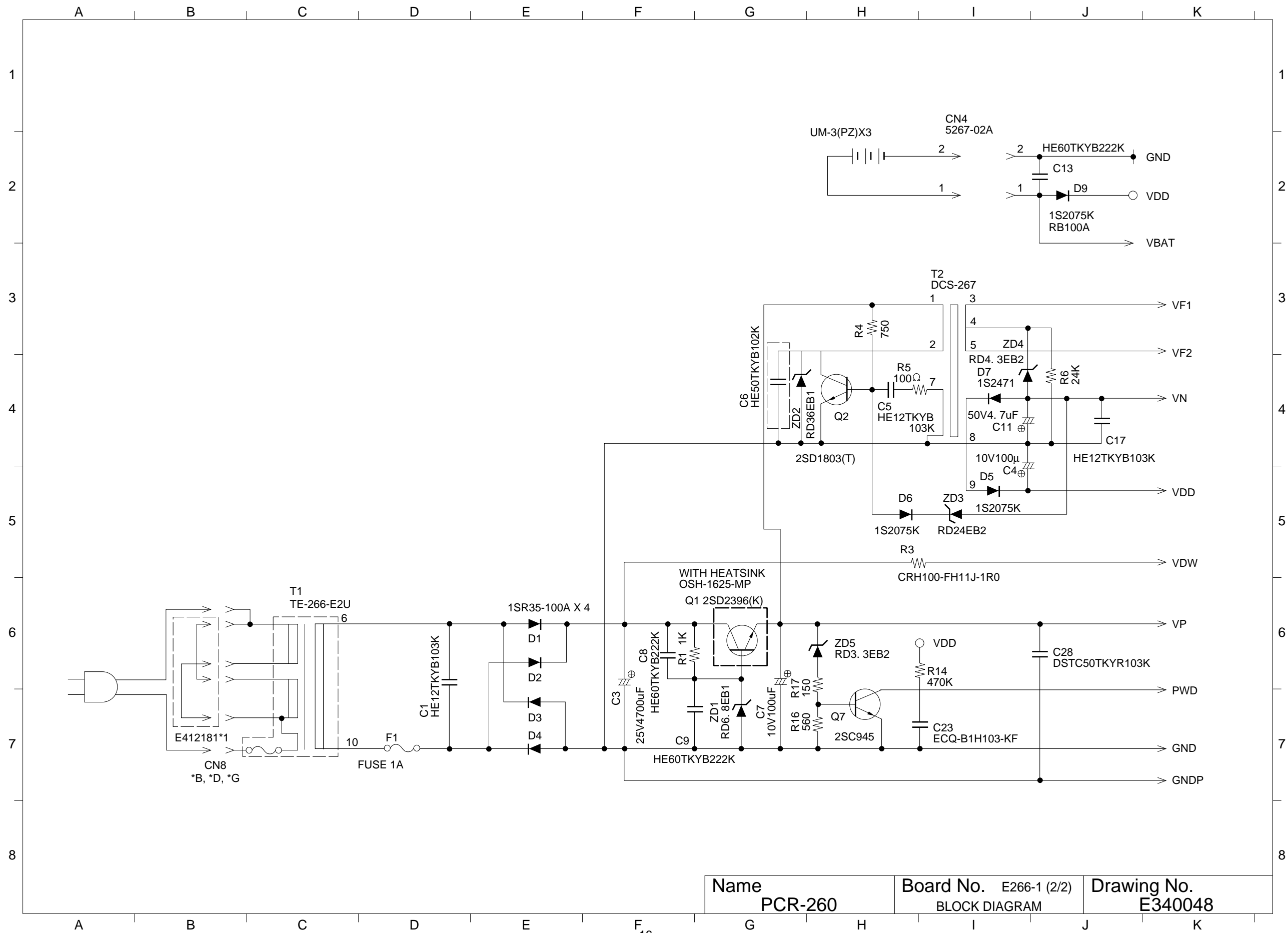


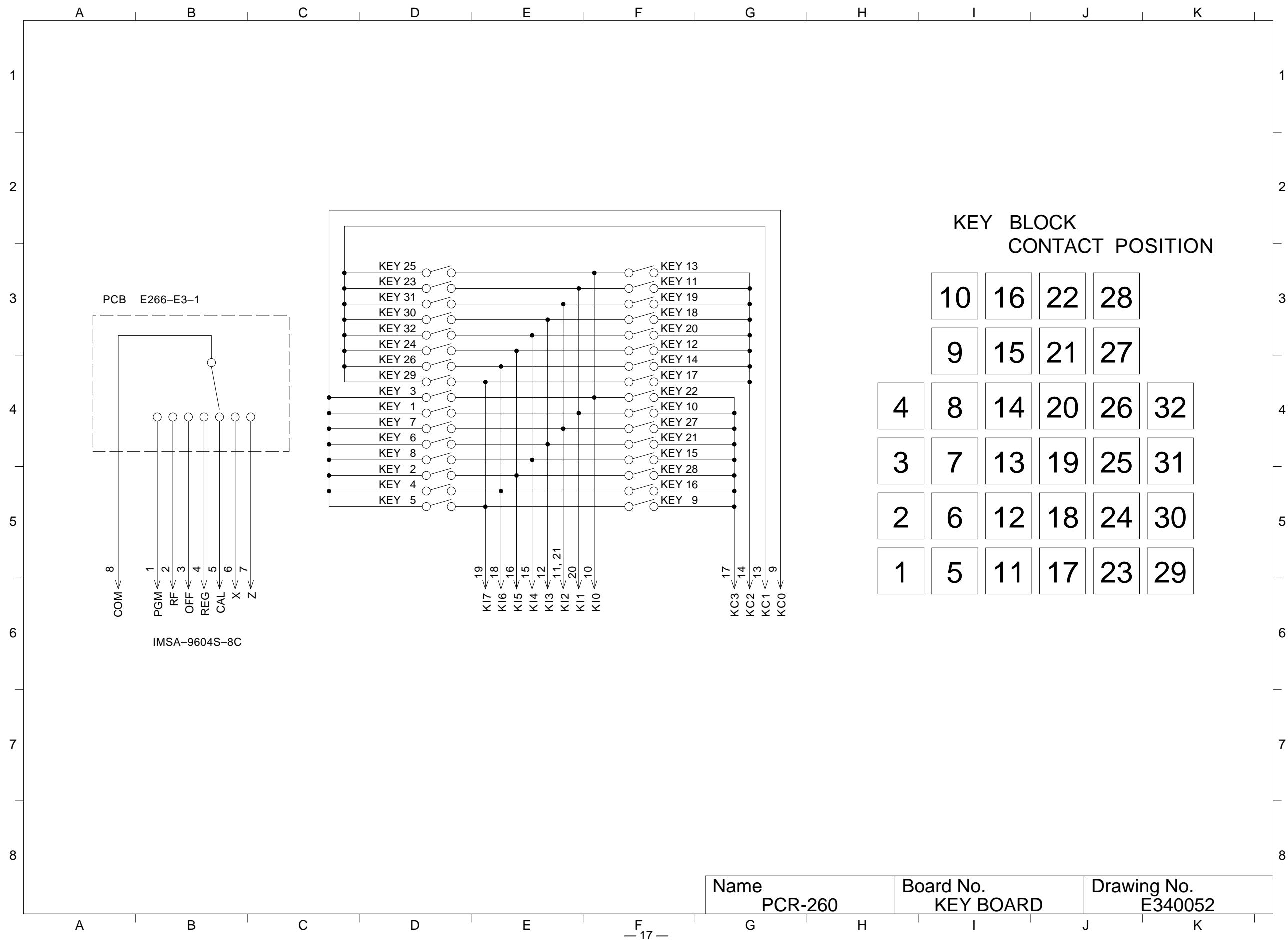
FEED	ERR. CORR.	PLU	#
C	X/FOR	10	%
AC	DATE TIME	5	CLK #
7	8	9	RA
4	5	6	T/S1
1	2	3	CH
0	00	.	CHK (NS)
			SUB
			TOTAL
			MD
			ST
			CA
			AMT
			TEND

Name	Board No.	Drawing No.
PCR-260	BLOCK DIAGRAM	E240064



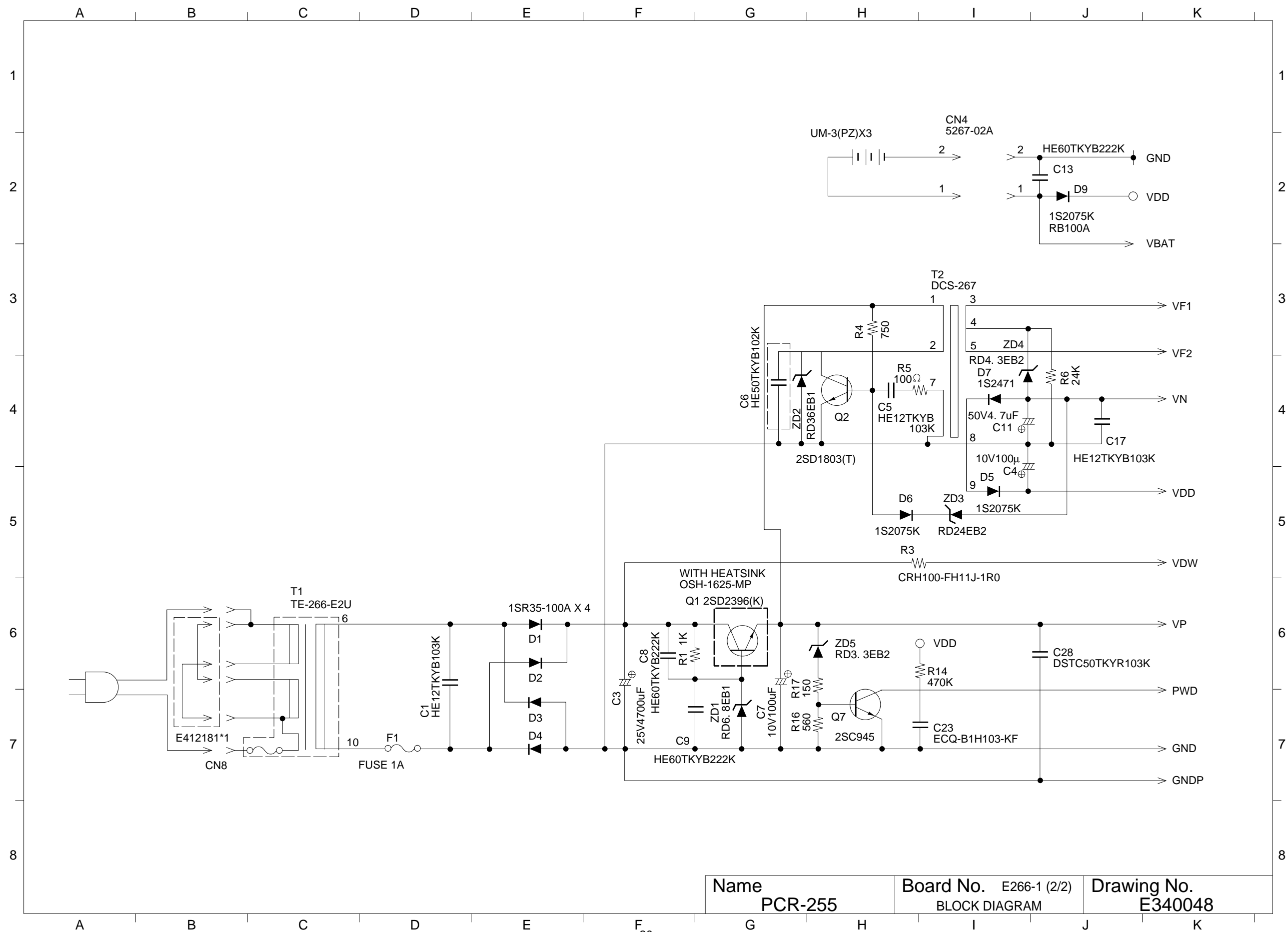


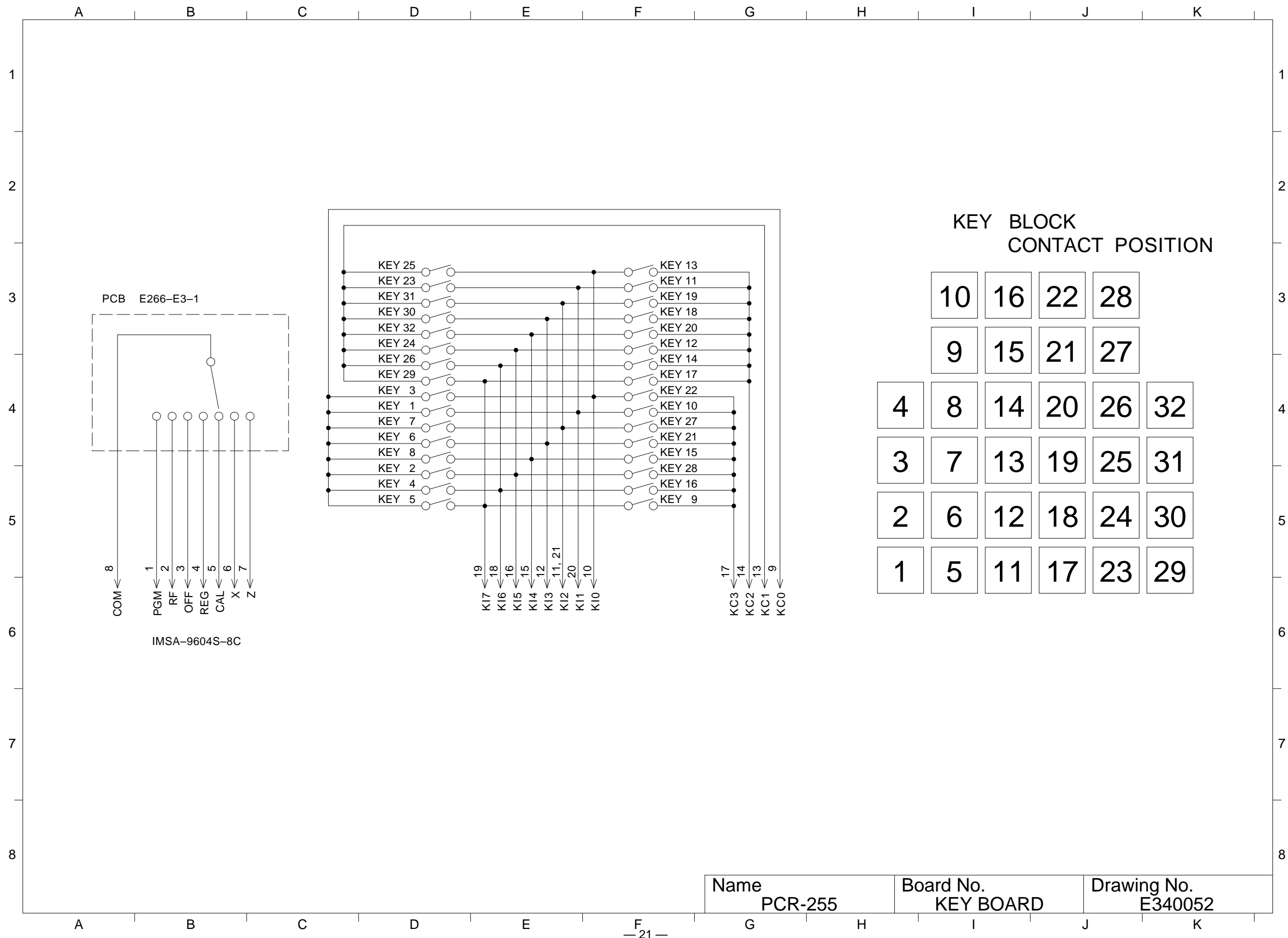


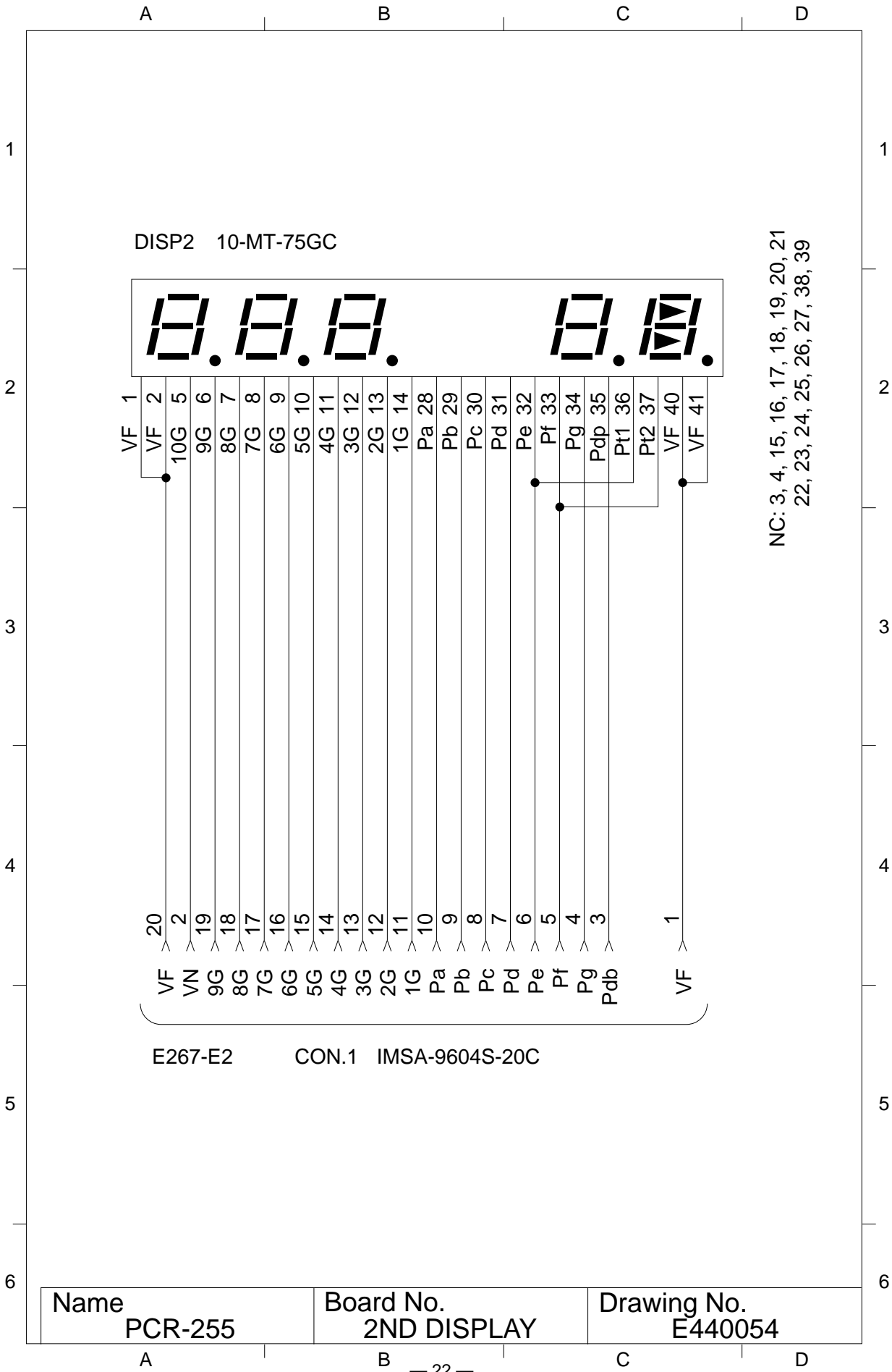






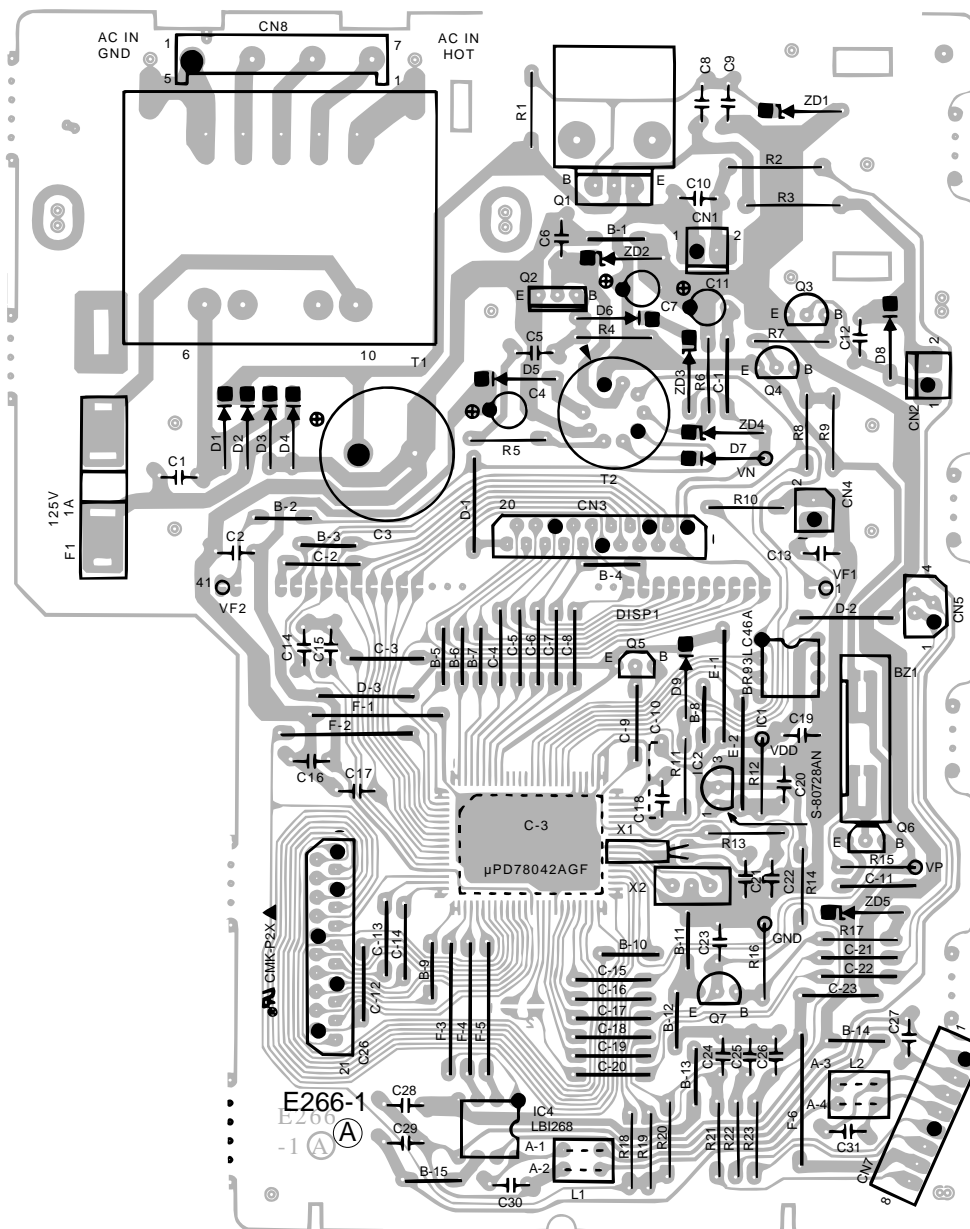








## 11. PCB LAYOUT



## 12. PARTS LIST

1. MAIN PCB BLOCK
2. 2ND DISPLAY BLOCK (PCR-255 ONLY)
3. POWER SUPPLY BLOCK
4. KEYBOARD BLOCK
5. UPPER CASE BLOCK
6. OTHERS
7. PRINTER UNIT
8. DRAWER  
DL-1319

### Notes:

1. Price and specifications are subject to change without notice.
2. As for order / supply of spare parts, refe to the "GUIDE BOOK for spare parts supply" a separate publication.
3. Numbers in the item colum correspond to the same numbers in exploded drawing.
4. MARKS:

Q: Quantity used per unit

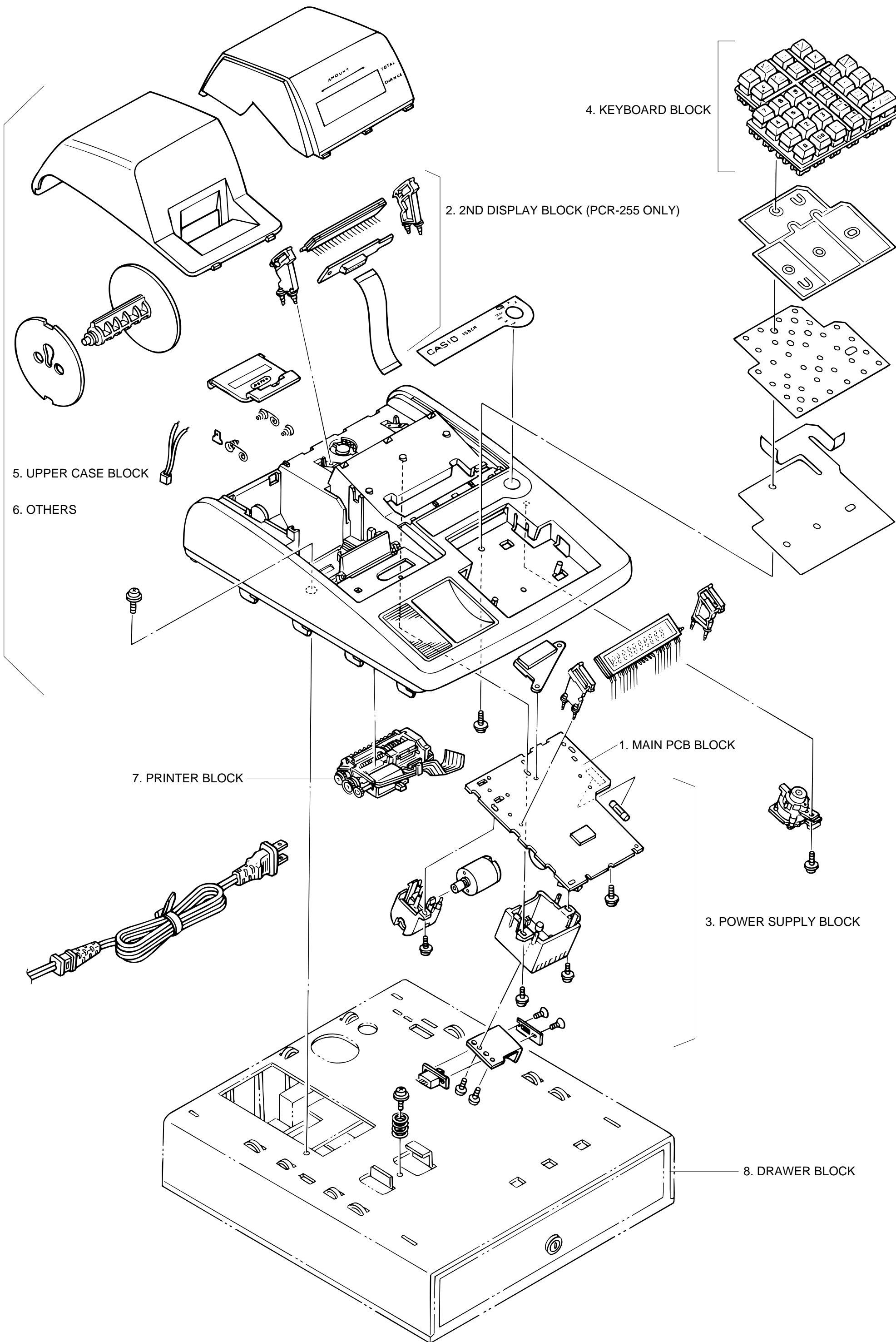
R: Rank

A: Essential

B: Stock recommended

C: Less recommended

X: No stock recommended

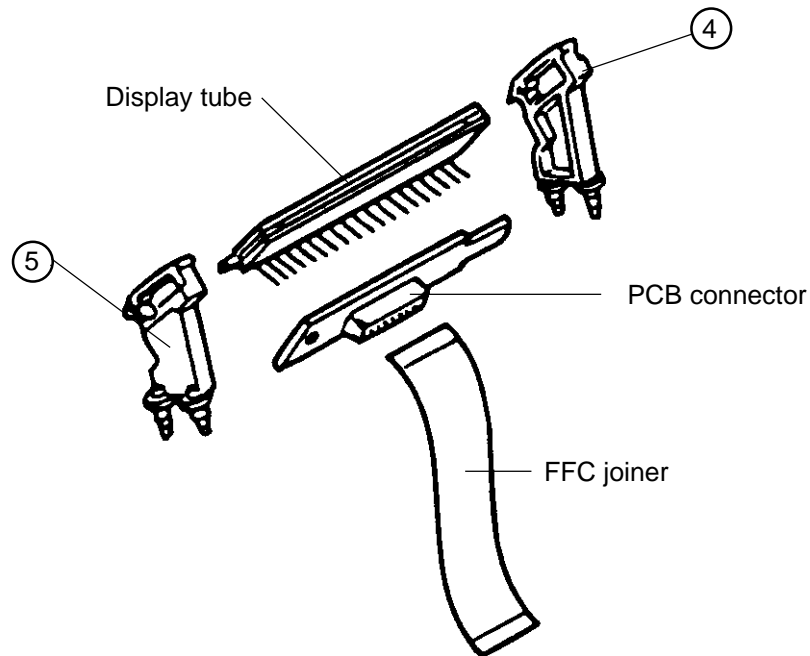


# 1. MAIN PCB BLOCK

Item	Code No.	Parts Name	Specification	Version	Q	R
<b>MAIN PCB ASS'Y</b>						
		Main PCB E266-1 ass'y (PCR-260)	E211682*7		1	A
		Main PCB E267-1 ass'y (PCR-255)	E211683*6		1	A
IC4	2120 6253	Monolithic IC	LB1268		1	A
IC2	2120 7393	Reset IC	S-80728AN-Z		1	A
		LSI	UPD78044AGF195-3B9		1	A
Q4	2200 9141	Transistor	2SA933(K,P,Q,R)		1	B
Q7	2220 2456	Transistor	2SC945(K,P,Q,R)		1	B
Q2	2250 1022	Transistor	2SD1803(T)		1	B
Q3	2250 1029	Transistor	2SD1961(S)		1	B
Q1	2250 1036	Transistor	2SD2396(K)		1	B
Q6	2250 0847	Digital transistor	DTC143ZS		1	B
D5,6,9	2315 2689	Diode	1S2075K		3	B
D7	2301 0046	Diode	1S2471		1	B
D1,2,3,4,8	2315 2682	Diode	1SR35-100A		5	B
ZD3	2315 2766	Zener diode	RD24EB2		1	B
ZD5	2315 2654	Zener diode	RD3.3EB2		1	B
ZD2	2315 2661	Zener diode	RD36EB1		1	B
ZD4	2315 2759	Zener diode	RD4.3EB2		1	B
ZD1	2315 2675	Zener diode	RD6.8EB1		1	B
R10,11,12, R18,19,20		Carbon film resistor	CR-25-100KOHMJ		5	C
R5		Carbon film resistor	CR-25-100OHMJ		1	C
R17		Carbon film resistor	CR-25-150OHMJ		1	C
R1,15,21, R22,23		Carbon film resistor	CR-25-1KOHMJ		5	C
R8		Carbon film resistor	CR-25-2.2KOHMJ		1	C
R6		Carbon film resistor	CR-25-24KOHM-J		1	C
R13		Carbon film resistor	CR-25-330KOHMJ		1	C
R9		Carbon film resistor	CR-25-4.7KOHMJ		1	C
R14		Carbon film resistor	CR-25-470KOHM-J		1	C
R16		Carbon film resistor	CR-25-560OHMJ		1	C
R4		Carbon film resistor	CR-25-750OHM-J		1	C
R7		Carbon film resistor	CR-25-75OHM-J		1	C
R2	2700 7821	Metal film resistor	CRH100-FH11J-10R		1	C
R3	2775 1225	Metal film resistor	CRH100-FH11J-1R0		1	C
C11	2807 2735	Electrolytic capacitor	RE2-50V4R7M		1	C
C4,7	2807 2315	Electrolytic capacitor	RE3-10V101M		2	C
C3	2807 2658	Electrolytic capacitor	RE3-25V472M		1	C
C20,23,31	2820 3778	TF capacitor	ECQ-B1H-103KF		3	C
C2,16,19,28	2825 0427	TF capacitor	RT-DSTC50TKYR103K		4	C
C1,3,17	2818 0454	Ceramic capacitor	RT-HE12TKYB103K		3	C
C21,22	2818 3291	Ceramic capacitor	RT-HE40TKCH120J		2	C
C14,15	2818 0446	Ceramic capacitor	RT-HE40TKYB101K		2	C
C10,12	2818 0390	Ceramic capacitor	RT-HE40TKYB221K		2	C
C8,9,18,24, C25,26,27	2818 0403	Ceramic capacitor	RT-HE60TKYB222K		7	C
CN7	3500 1077	Connector	52011-0810		1	C

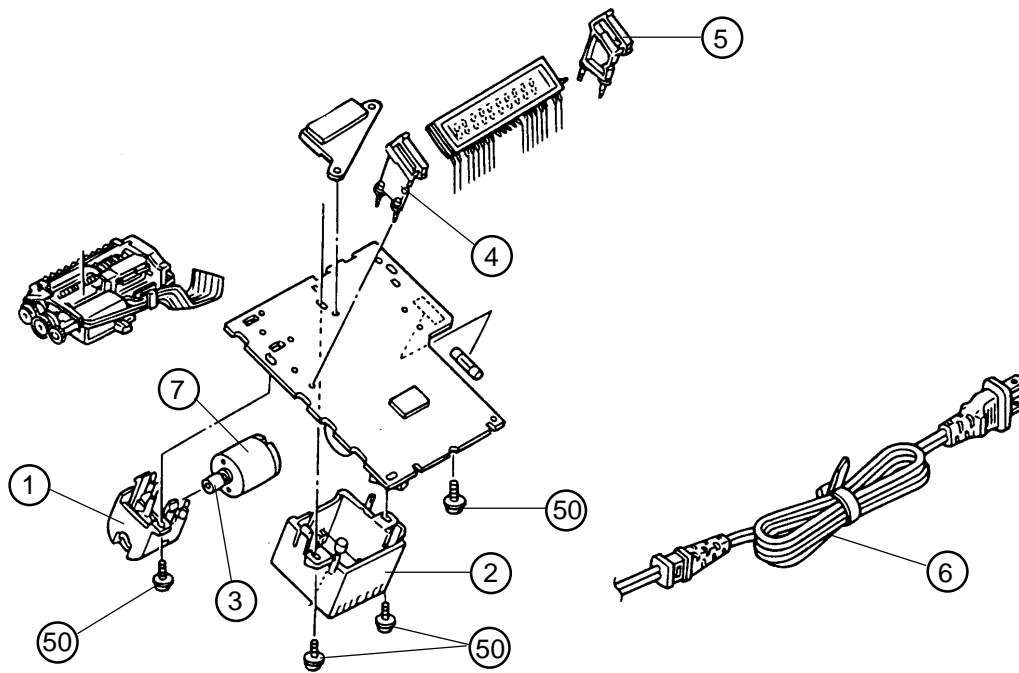
Item	Code No.	Parts Name	Specification	Version	Q	R
CN4	3510 3465	PCB connector	5267-02A	U.S.A. ,Canada	1	C
CN1	6246 2780	Connector sub ass'y	E311971*1		1	X
CN8	6246 2830	Conector sub ass'y	E412181*1		1	X
CN3	3540 4780	PCB connector (for PCR-255)	IMSA-9604S-20C	U.S.A. ,Canada, Other countries	1	C
CN2	3500 3371	Connector 2P	IL-G-2P-S3T2-E		1	C
CN6	3540 4759	PCB connector	IMSA-9604S-21C		1	C
F1	3631 0330	Fuse	237001	U.S.A. ,Canada, Other countries	1	A
F1	3640 2331	Fuse holder	UF-0033		2	C
X1	2520 3445	Crystall oscillator	C-002RX(M90-76)		1	A
X2	2801 8932	Ceramic oscillator	CST4.19MGW		1	A
T1	3000 7098	Power transformer	TE-266-E2U		1	B
T2	3000 7091	DC/DC converter	DCS-267		1	A
DISP1	2408 8219	Display tube	10-MT-75GC		1	B
BZ1	3240 2089	Sounducer	PKM22EPT-2001		1	C
Q-1	3750 1212	Heat sink	OSH-1625-MP		1	C

## 2. 2ND DISPLAY BLOCK (PCR-255 ONLY)



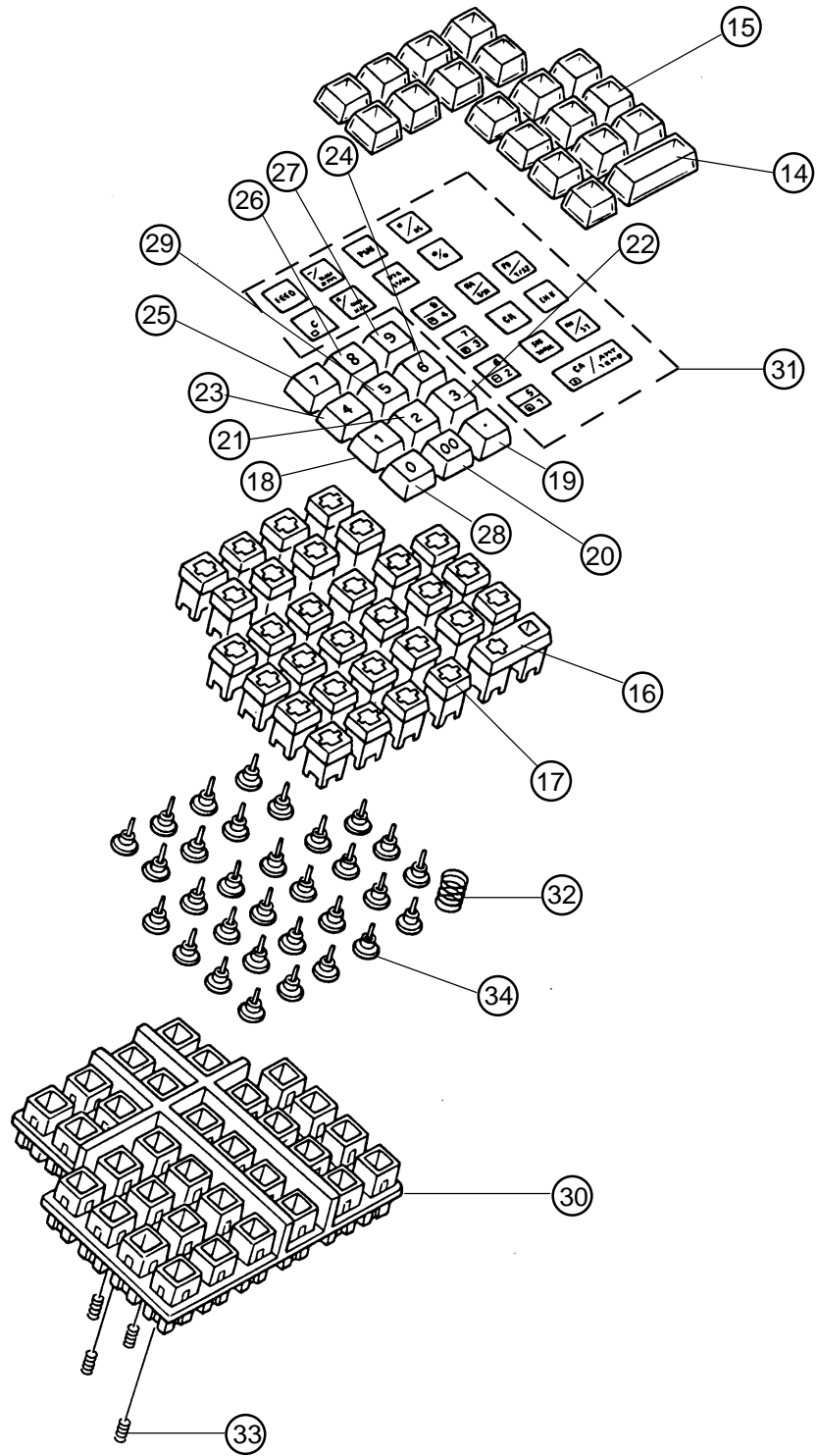
Item	Code No.	Parts Name	Specification	Version	Q	R
		E276-E2 ass'y (PCR-255 only)				
	2408 8219	Display tube	10-MT-75GC		1	A
	3540 4780	PCB connector	IMSA-9604S-20C		1	C
	6246 2550	FFC joiner E267	E412162-1		1	C
4	6246 1980	Display fixing stand L	E412090-1		1	X
5	6246 1970	Display fixing stand R	E412089-1		1	X

### 3. POWER SUPPLY BLOCK



Item	Code No.	Parts Name	Specification	Version	Q	R
<b>POWER SUPPLY BLOCK</b>						
1	6246 1820	Motor fixing stand	E311858-1		1	X
2	6246 2850	Transformer cover	E311870-1		1	X
3	6220 1746	Winder rubber	E410716-1		1	A
4	6246 1980	Display fixing stand L	E412090-1		1	X
5	6246 1970	Display fixing stand R	E412089-1		1	X
6	3701 0228	Power cord	ME301S		1	C
7	3200 3672	Motor	MXN-13FB12F		1	B

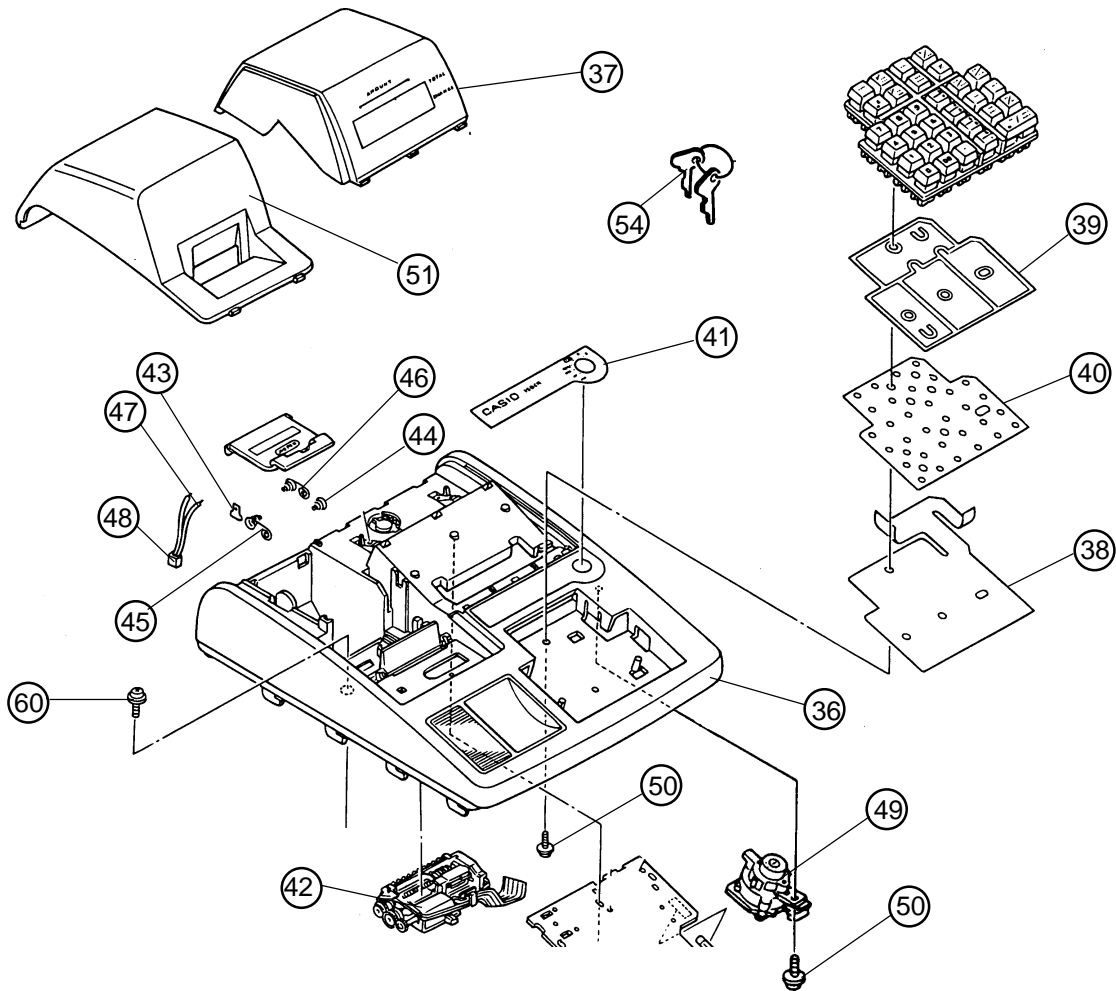
#### 4. KEYBOARD BLOCK





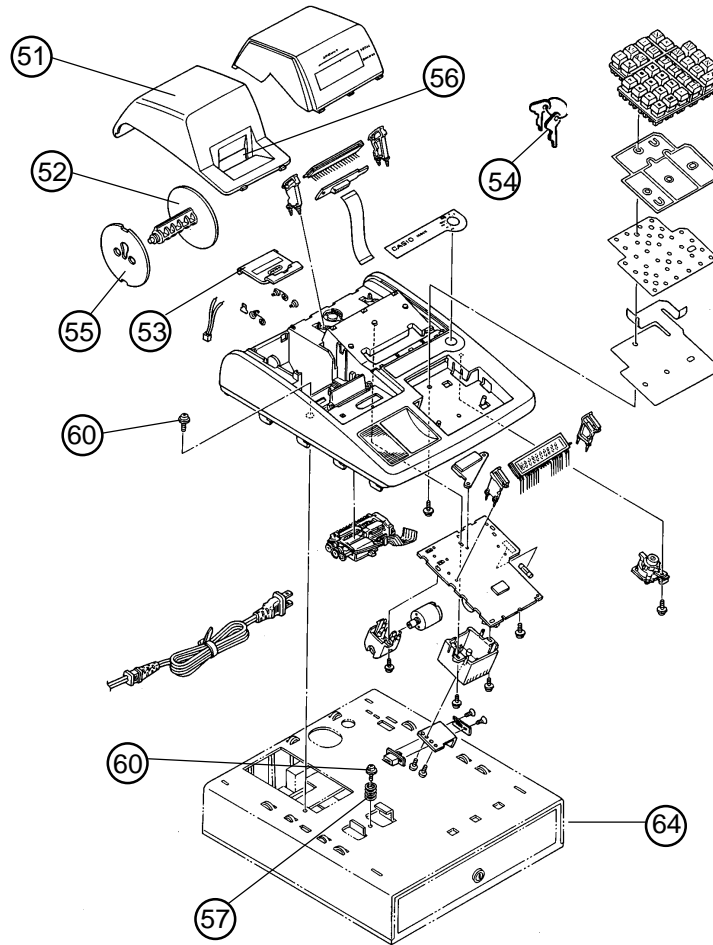
Item	Code No.	Parts Name	Specification	Version	Q	R
<b>KEYBOARD ASS'Y</b>						
		Keyboard ass'y	E211671*5		1	B
14	6221 3988	L cap E227	E210964-1	U.S.A.,Canada	1	C
15	6221 4025	S cap E227	E311103-1	U.S.A.,Canada	18	C
16	6246 4030	L button E266	E210963-4	U.S.A.,Canada	1	C
17	6246 4020	S button E266	E311101-4	U.S.A.,Canada	30	C
18	6245 7250	S button 1	E311792-1		1	C
19	6245 7340	S button .	E311792-10		1	C
20	6245 7350	S button 00	E311792-11		1	C
21	6245 7260	S button 2	E311792-2		1	C
22	6245 7270	S button 3	E311792-3		1	C
23	6245 7280	S button 4	E311792-4		1	C
24	6245 7290	S button 6	E311792-5		1	C
25	6245 7300	S button 7	E311792-6		1	C
26	6245 7310	S button 8	E311792-7		1	C
27	6245 7320	S button 9	E311792-8		1	C
28	6245 7330	S button 0	E311792-9		1	C
29	6245 7360	S button 5	E311116-4		1	C
30	6246 1810	Keyboard frame	E211599-1		1	X
31		Plate sub ass'y			1	X
32	6221 0630	Coil spring A	E411104-1		1	C
33	6221 0648	Coil spring B	E411104-2		4	C
34	6245 3530	Key contact rubber	E411877-1		31	B

## 5. UPPER CASE BLOCK



Item	Code No.	Parts Name	Specification	Version	Q	R
<b>UPPER CASE BLOCK</b>						
36	6246 1740	Upper case E266	E110368-1		1	X
37	6246 1790	Display plate E266B (PCR-260)	E110370-2		1	C
37	6246 1800	Display plate E267B (PCR-255)	E110370-3		1	C
38	6246 2740	FPC E266	E311855-1		1	B
39	6246 2750	Common sheet E266	E311856-1		1	B
40	6246 2760	Spacer E266	E311857-1		1	B
41	6246 2030	Mode key plate E266BC (PCR-260)	E412138-11		1	C
41	6246 2040	Mode key plate E266BC (PCR-255)	E412138-12		1	C
42	1090 5329	Printer unit	M-42V-001-060MA		1	A
43	6322 4499	Battery spring A-G55	A42606-1		1	X
44	6000 6091	Battery spring G67	A43656-1		1	X
45	6001 0862	Battery spring B-1	P408-1		1	X
46	6001 0871	Battery spring B-2	P409-1		1	X
47	6221 2284	Connector sub ass'y (Black)	E411265*1		1	X
48	6221 2292	Lead wire sub ass'y (Red)	E411266*1		1	X
49	6192 4970	Mode switch ass'y	E311944*1		1	B
50		(+) Screw with washer	3x10 ZMC-3		6	X

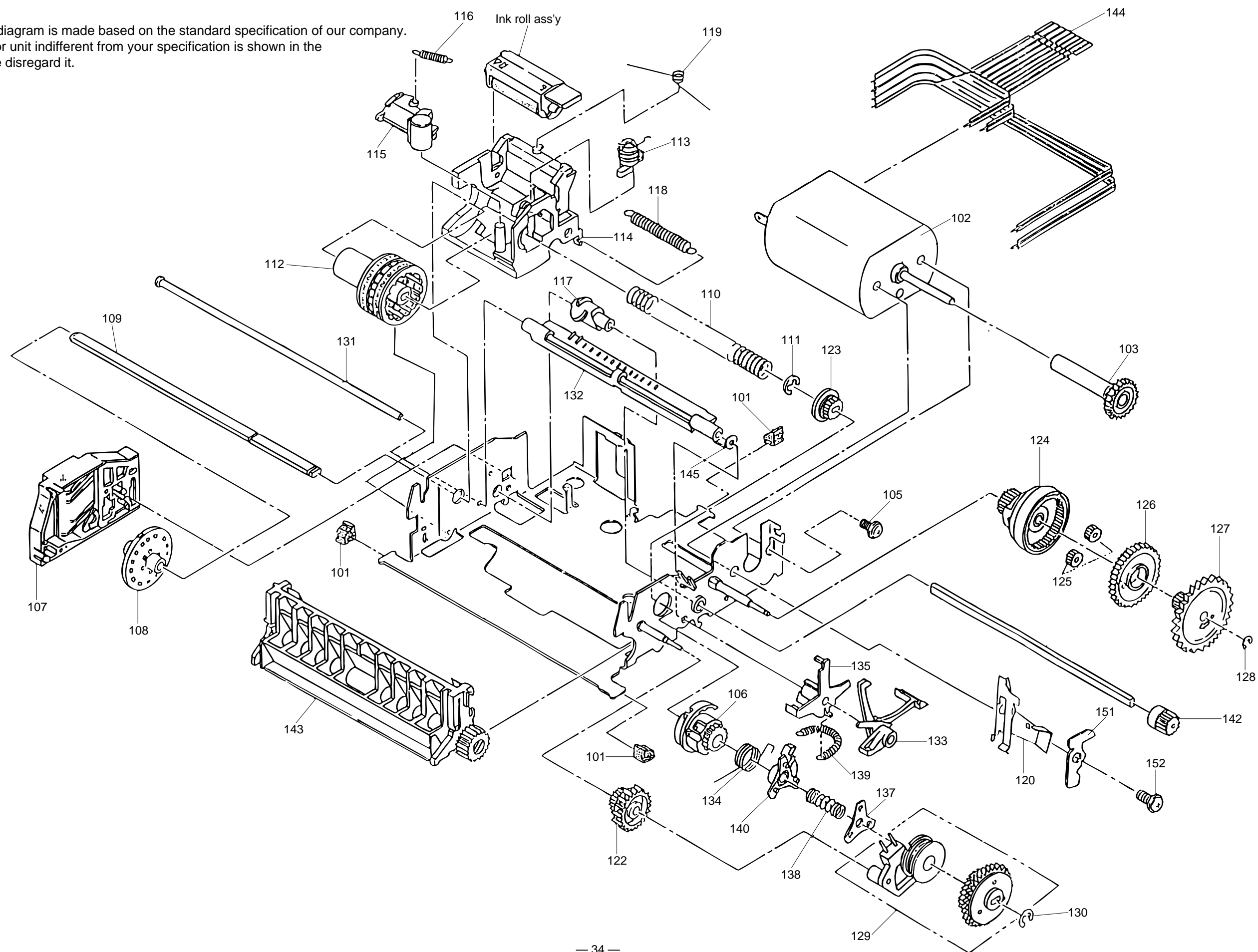
## 6. OTHERS



Item	Code No.	Parts Name	Specification	Version	Q	R
<b>OTHERS</b>						
51	6246 1760	Printer cover	E110369-1	U.S.A.,Canada,U.K.	1	C
52	6246 1830	Wind pulley	E311860-1		1	B
53	6246 1840	Battery cover E266	E311934-1		1	C
54	6246 4010	Key set sub ass'y	E312046*3		1	B
	6246 1870	OP key	E311853-1		2	B
	6246 1910	PRG key	E311853-5		2	B
55	6221 4029	Paper holding spool	E411393-1		1	B
56	6215 8506	Paper cutter E94	E42592-1		1	C
57	6246 5750	Earth spring E266	E440019-1		1	X
60		Screw with washer	3x8 ZMC-3		2	X
63		Wire band	T-18S		1	X
64	6247 9549	Drawer unit (DL-1319)	E412153B*1		1	X

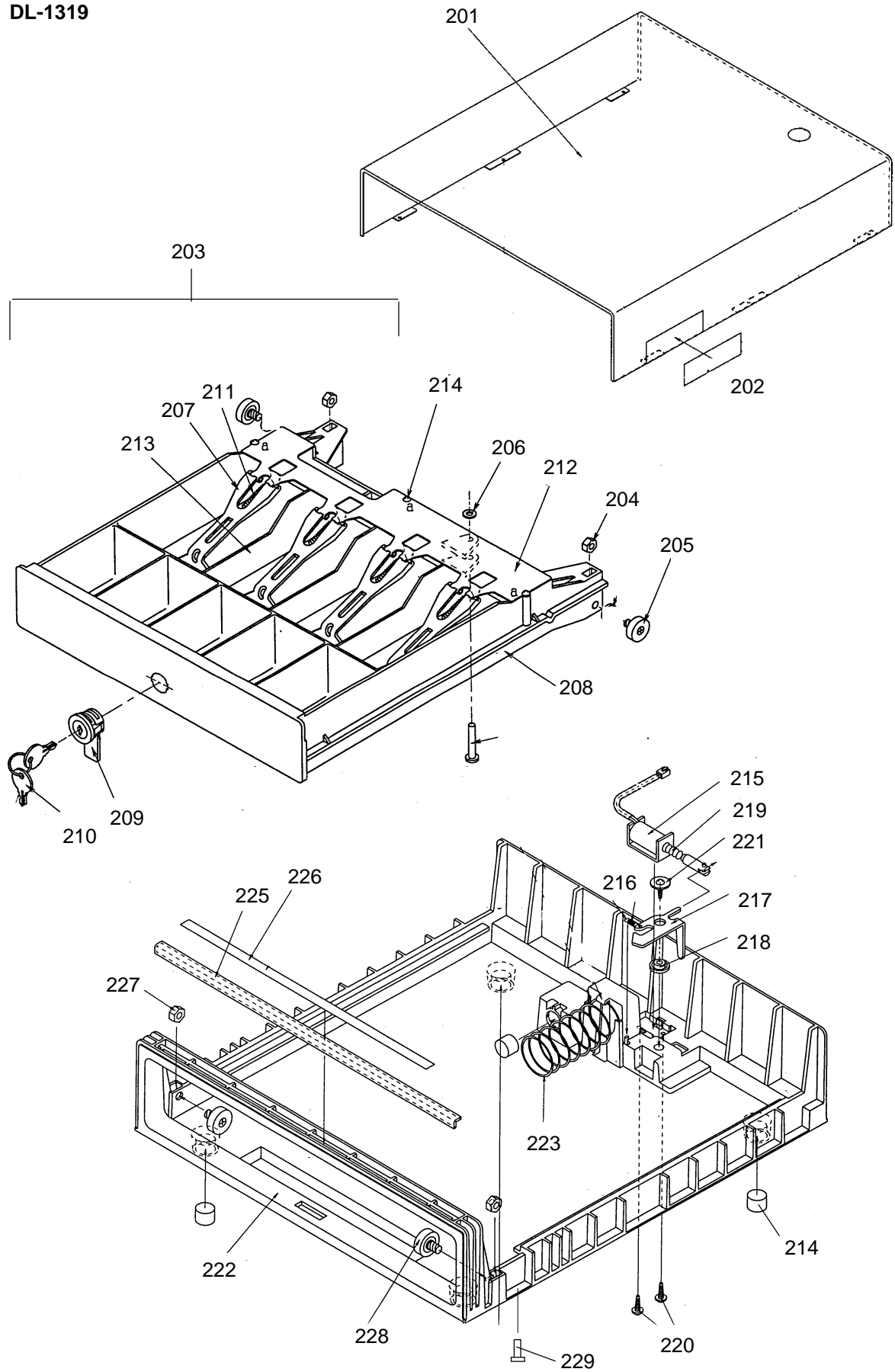
7. PRINTER UNIT

\*The exploded diagram is made based on the standard specification of our company.  
When the part or unit indifferent from your specification is shown in the diagram, please disregard it.



Item	Code No.	Parts Name	Specification	Q	R
101	1903 0201	Rubber fitting	F801001050	3	X
102	1908 7661	Motor	F818051010	1	A
103	1908 7662	Motor gear	F817051010	1	C
105	1908 7663	Cup screw M2x2.9	B040352118	2	X
106	1908 7664	Paper feed drive gear ass'y	F815101000	1	C
107	1908 7665	Detector ass'y	F815151000	1	A
108	1903 2244	Detection wheel	F808152010	1	A
109	1903 1976	Print wheel shaft	F808202010	1	X
110	1903 0219	Print wheel spring	F801202020	1	C
111	1903 0791	Retaining ring TYPE-E(1.5)	B150300311	1	X
112	1906 8901	Print wheel (for Japan)	M824009030	1	A
112	1906 8909	Print wheel (for USA, Canada)	M817001060	1	A
112	1906 8908	Print wheel (for except USA,Canada)	M824001140	1	A
113	1906 8902	Hammer transmission lever ass'y	F815210000	1	C
114	1906 8903	Carriage	F817208010	1	C
115	1908 7317	Hammer (for Japan)	F818206010	1	C
115	1906 8907	Hammer (for except Japan)	F809201020	1	C
116	1903 2246	Hammer return spring	F808201020	1	C
117	1908 7676	Print cam	F817201020	1	C
118	1903 2298	Carriage spring	F812201020	1	C
119	1908 7670	Ink roll spring	F817201010	1	C
120	1908 7318	Selective pawl spring	F818209010	1	C
122	1909 1858	Paper feeding transmission gear	F815212010	1	C
123	1903 0220	Paper feeding ratchet wheel	F801202030	1	C
124	1906 8904	Print change over cam	F815215010	1	C
125	1903 0234	Planet gear	F801206020	2	C
126	1903 0235	Selecting drive gear	F801206030	1	C
127	1908 7674	Reduction gear	F817203010	1	C
128	1903 0792	Retaining ring TYPE-E(1.2)	B150300212	1	X
129	1906 8905	Coil selective gear ass'y	F818230000	1	C
130	1903 0791	Retaining ring TYPE-E(1.5)	B150300311	1	X
131	1903 1968	Positioning shaft	F806206010	1	X
132	1903 2280	Positioning plate	F808205010	1	X
133	1903 0293	Selecting ratchet	F804204010	1	X
134	1903 0264	Trigger lever spring	F803204020	1	C
135	1908 7675	Return lever	F815207010	1	C
137	1903 0230	Trigger plate	F801205100	1	C
138	1903 0231	Trigger plate spring	F801205110	1	C
139	1903 2293	Return lever spring	F810205020	1	C
140	1903 0226	Trigger lever	F801205060	1	C
141	1903 1972	Platen shaft	F806207010	1	X
142	1903 0241	Carriage feeding gear	F801211020	1	C
143	1908 7321	Platen ass'y	F818251000	1	X
144	1906 8910	Jumper wire	F818601010	1	X
145	1906 8906	Plain washer G	F817210010	1	X
151	1908 7672	Selective pawl spring holder	F818202020	1	X
152	1903 0674	Cup screw 2x3.5	B040351111	1	X

## 8. DRAWER UNIT DL-1319



## DL-1319

Item	Code No.	Parts Name	Specification	Q	R
201	6246 7446	Top cover	E211698A-1	1	X
202	6246 8510	Coin case	E340117-2	1	X
203	6193 3140	Drawer ass'y	E240112*2	1	C
204	5150 1643	Nut	6	2	C
205	5500 0878	Roller	DR-19B2	2	B
206	5580 1452	CS ring	CSTW-5	1	X
207	6221 4902	Bill holder	ZD18931	4	A
208	6246 8566	Drawer EDL-IG	E110326A-2	1	X
209	6246 4960	Cylinder lock	E311950*1	1	B
210	6246 5000	Cylinder key	E412062-1	2	B
211	6246 5220	Bill holder spring	E412160-1	4	A
212	6246 6571	Bill holder fixing plate	E311873-1	1	C
213	6246 6585	Partition plate	E340010-5	3	B
214		Screw	3X8 ZMC-3	3	X
215	5500 0885	Solenoid ass'y	STC-06UB-332T	1	B
216	5580 1461	Lock spring	ZD03441-A	1	C
217	6246 4940	Hook lever	E311876-1	1	X
218	6246 5020	Hook lever shaft	E412071-1	1	X
219	6246 6564	Solenoid spring	E440034-1	1	C
220	5161 3210	Screw	3X5 ZMC-3	2	X
221	5151 3236	Screw with washer	4X18 ZMC-3	1	X
222	6246 6515	Bottom case	E110360-1	1	X
223	6246 6522	Push spring	E412137-1	1	C
227	5150 1643	Nut	6	2	X
228	5500 0878	Roller	DR-19B2	2	B
229		Tapping screw	3x8	6	X

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